Flight-Testing Newton's Laws			
2009 Mathematics			
Academic Standards			
Nebraska Mathematics			
Grades 9-12			
Activity/Lesson	**State**	**Standards**	
Session-10 (1-5)	NE	MA.9-12.MA 12.2.5.e	Find arc length and area of sectors of a circle
Session-10 (1-5)	NE	MA.9-12.MA 12.3.1.f	Compare and analyze the rate of change by using ordered pairs, tables, graphs, and equations
Session-10 (1-5)	NE	MA.9-12.MA 12.3.3.m	Derive and use the formulas for the general term and summation of finite arithmetic and geometric series
Session-10 (1-5)	NE	MA.9-12.MA 12.3.3.o	Solve an equation involving several variables for one variable in terms of the others
Session-1 (1-17)	NE	MA.9-12.MA 12.3.3.m	Derive and use the formulas for the general term and summation of finite arithmetic and geometric series
Session-1 (1-17)	NE	MA.9-12.MA 12.3.3.o	Solve an equation involving several variables for one variable in terms of the others
Session-2 (1-10)	NE	MA.9-12.MA 12.2.5.e	Find arc length and area of sectors of a circle
Session-2 (1-10)	NE	MA.9-12.MA 12.3.1.f	Compare and analyze the rate of change by using ordered pairs, tables, graphs, and equations
Session-2 (1-10)	NE	MA.9-12.MA 12.3.3.m	Derive and use the formulas for the general term and summation of finite arithmetic and geometric series
Session-2 (1-10)	NE	MA.9-12.MA 12.3.3.o	Solve an equation involving several variables for one variable in terms of the others
Session-3 (1-6)	NE	MA.9-12.MA 12.2.5.e	Find arc length and area of sectors of a circle
Session-3 (1-6)	NE	MA.9-12.MA 12.3.3.o	Solve an equation involving several variables for one variable in terms of the others
Session-4 (1-11)	NE	MA.9-12.MA 12.3.1.f	Compare and analyze the rate of change by using ordered pairs, tables, graphs, and equations
Session-4 (1-11)	NE	MA.9-12.MA 12.3.3.m	Derive and use the formulas for the general term and summation of finite arithmetic and geometric series
Session-4 (1-11)	NE	MA.9-12.MA 12.3.3.o	Solve an equation involving several variables for one variable in terms of the others
Session-5 (1-6)	NE	MA.9-12.MA 12.3.1.f	Compare and analyze the rate of change by using ordered pairs, tables, graphs, and equations
Session-5 (1-6)	NE	MA.9-12.MA 12.3.3.m	Derive and use the formulas for the general term and summation of finite arithmetic and geometric series
Session-5 (1-6)	NE	MA.9-12.MA 12.3.3.o	Solve an equation involving several variables for one variable in terms of the others
Session-6 (1-8)	NE	MA.9-12.MA 12.2.5.e	Find arc length and area of sectors of a circle

Session-6 (1-8)	NE	MA.9-12.MA 12.3.3.m	Derive and use the formulas for the general term and summation of finite arithmetic and geometric series
Session-6 (1-8)	NE	MA.9-12.MA 12.3.3.o	Solve an equation involving several variables for one variable in terms of the others
Session-7 (1-5)	NE	MA.9-12.MA 12.3.1.f	Compare and analyze the rate of change by using ordered pairs, tables, graphs, and equations
Session-7 (1-5)	NE	MA.9-12.MA 12.3.3.m	Derive and use the formulas for the general term and summation of finite arithmetic and geometric series
Session-7 (1-5)	NE	MA.9-12.MA 12.3.3.o	Solve an equation involving several variables for one variable in terms of the others
Session-8 (1-9)	NE	MA.9-12.MA 12.3.3.m	Derive and use the formulas for the general term and summation of finite arithmetic and geometric series
Session-8 (1-9)	NE	MA.9-12.MA 12.3.3.o	Solve an equation involving several variables for one variable in terms of the others
Session-9 (1-7)	NE	MA.9-12.MA 12.3.3.l	Evaluate polynomial and rational expressions and expressions containing radicals and absolute values at specified values of their variables
Session-9 (1-7)	NE	MA.9-12.MA 12.3.3.m	Derive and use the formulas for the general term and summation of finite arithmetic and geometric series
Session-9 (1-7)	NE	MA.9-12.MA 12.3.3.o	Solve an equation involving several variables for one variable in terms of the others